

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

EFS

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/571,989A

Source:

FWO

Date Processed by STIC:

3/28/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)**
2. **U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450**
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314**

Revised 01/10/06

Raw Sequence Listing Error Summary

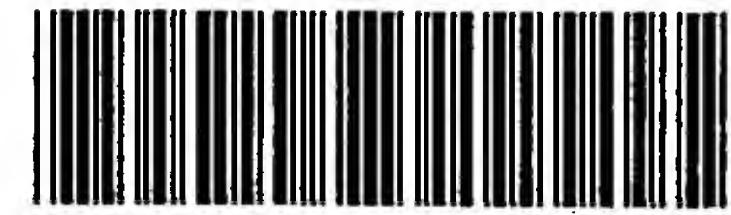
ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/571,989A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (ii) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 Use of <220>
→ Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/571,989A
 DATE: 03/28/2007
 TIME: 14:54:06
 Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
 Output Set: N:\CRF4\03282007\J571989A.raw

3 <110> APPLICANT: Cleveland State University
 5 <120> TITLE OF INVENTION: EXOSITE-DIRECTED THROMBIN INHIBITORS
 7 <130> FILE REFERENCE: CLEV200023
 9 <140> CURRENT APPLICATION NUMBER: US 10/571,989A
 C--> 10 <141> CURRENT FILING DATE: 2006-03-13
 12 <150> PRIOR APPLICATION NUMBER: PCT/US04/021487
 13 <151> PRIOR FILING DATE: 2004-07-01
 15 <150> PRIOR APPLICATION NUMBER: US 60/502186
 16 <151> PRIOR FILING DATE: 2003-09-12
 18 <160> NUMBER OF SEQ ID NOS: 25
 20 <170> SOFTWARE: PatentIn version 3.2
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 30
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Homo sapiens
 27 <400> SEQUENCE: 1
 29 Lys Met His Asp Arg Leu Glu Pro Gln Asp Glu Glu Ser Asp Ala Asp
 30 1 5 10 15
 33 Tyr Asp Tyr Gln Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg
 34 20 25 30
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 10
 39 <212> TYPE: PRT
 40 <213> ORGANISM: Homo sapiens
 42 <400> SEQUENCE: 2
 44 Lys Met His Asp Arg Leu Glu Pro Glu Asp
 45 1 5 10
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 10
 50 <212> TYPE: PRT
 51 <213> ORGANISM: Homo sapiens
 53 <400> SEQUENCE: 3
 55 Leu Glu Pro Glu Asp Glu Glu Ser Asp Ala
 56 1 5 10
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 10
 61 <212> TYPE: PRT
 62 <213> ORGANISM: Homo sapiens
 64 <400> SEQUENCE: 4
 66 Glu Glu Ser Asp Ala Asp Tyr Asp Tyr Gln
 67 1 5 10
 70 <210> SEQ ID NO: 5
 71 <211> LENGTH: 10

see pp 2-4

Does Not Comply
 Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007

TIME: 14:54:06

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
 Output Set: N:\CRF4\03282007\J571989A.raw

```

72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 5
77 Asp Tyr Asp Tyr Gln Asn Arg Leu Ala Ala
78 1 5 10
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 10
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 6
88 Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg
89 1 5 10
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 5
94 <212> TYPE: PRT
95 <213> ORGANISM: Artificial
97 <220> FEATURE:
98 <223> OTHER INFORMATION: chemically synthesized
100 <400> SEQUENCE: 7
102 Asp Tyr Asp Tyr Gln
103 1 5
106 <210> SEQ ID NO: 8
107 <211> LENGTH: 5
108 <212> TYPE: PRT
109 <213> ORGANISM: Artificial
111 <220> FEATURE:
112 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 4 IS SULFONATED (-SO3-2) Artificial
114 <400> SEQUENCE: 8
116 Asp Tyr Asp Tyr Gln
117 1 5
120 <210> SEQ ID NO: 9
121 <211> LENGTH: 5
122 <212> TYPE: PRT
123 <213> ORGANISM: Artificial
125 <220> FEATURE:
126 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATIONS 2 AND 4 ARE SULFONATED (-SO3-2)
128 <400> SEQUENCE: 9
130 Asp Tyr Asp Tyr Gln
131 1 5
134 <210> SEQ ID NO: 10
135 <211> LENGTH: 4
136 <212> TYPE: PRT
137 <213> ORGANISM: Homo sapiens
139 <400> SEQUENCE: 10
141 Asp Tyr Asp Tyr
142 1
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 5
147 <212> TYPE: PRT

```

this may explain Tyr, but it does not explain

(see item 11 on Error summary sheet)

same error

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007
TIME: 14:54:06

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
Output Set: N:\CRF4\03282007\J571989A.raw

```

148 <213> ORGANISM: Homo sapiens
150 <400> SEQUENCE: 11
152 Asp Tyr Asp Tyr Gln
153 1 5
156 <210> SEQ ID NO: 12
157 <211> LENGTH: 4
158 <212> TYPE: PRT
159 <213> ORGANISM: Artificial same error
161 <220> FEATURE:
162 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 2 IS SULFONATED (-SO3-2)
164 <400> SEQUENCE: 12
166 Asp Tyr Asp Tyr
167 1
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 4
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial same
175 <220> FEATURE:
176 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATION 4 IS SULFONATED (-SO3-2)
178 <400> SEQUENCE: 13
180 Asp Tyr Asp Tyr
181 1
184 <210> SEQ ID NO: 14
185 <211> LENGTH: 4
186 <212> TYPE: PRT
187 <213> ORGANISM: Artificial same
189 <220> FEATURE:
190 <223> OTHER INFORMATION: TYR AT SEQUENCE LOCATIONS 2 AND 4 ARE SULFONATED (-SO3-2)
192 <400> SEQUENCE: 14
194 Asp Tyr Asp Tyr
195 1
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 23
200 <212> TYPE: DNA
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 15
204 gagtgatgct aagtttgatt acc 23
207 <210> SEQ ID NO: 16
208 <211> LENGTH: 23
209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 16
213 ggtaatcaaa cttagcatca ctc 23
216 <210> SEQ ID NO: 17
217 <211> LENGTH: 18
218 <212> TYPE: DNA
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 17
222 catggagtga ccttctcg 18

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007
TIME: 14:54:06

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
Output Set: N:\CRF4\03282007\J571989A.raw

225 <210> SEQ ID NO: 18		
226 <211> LENGTH: 15		
227 <212> TYPE: DNA		
228 <213> ORGANISM: Homo sapiens		
230 <400> SEQUENCE: 18		
231 tcatccagga gaacc		15
234 <210> SEQ ID NO: 19		
235 <211> LENGTH: 28		
236 <212> TYPE: DNA		
237 <213> ORGANISM: Homo sapiens		
239 <400> SEQUENCE: 19		
240 gctaagttta agttccagaa cagactgg		28
243 <210> SEQ ID NO: 20		
244 <211> LENGTH: 28		
245 <212> TYPE: DNA		
246 <213> ORGANISM: Homo sapiens		
248 <400> SEQUENCE: 20		
249 ccagtctgtt ctggaactta aacttagc		28
252 <210> SEQ ID NO: 21		
253 <211> LENGTH: 13		
254 <212> TYPE: PRT		
255 <213> ORGANISM: Artificial		
257 <220> FEATURE:		
258 <223> OTHER INFORMATION: NO COMMENT		
260 <400> SEQUENCE: 21		
262 Asp Tyr Gln Asn Arg Leu Ala Ala Ala Leu Gly Ile Arg		
263 1 5 10		
266 <210> SEQ ID NO: 22		
267 <211> LENGTH: 15		
268 <212> TYPE: PRT		
269 <213> ORGANISM: Artificial		
271 <220> FEATURE:		
272 <223> OTHER INFORMATION: NO COMMENT		
274 <400> SEQUENCE: 22		
276 Pro Val Ile Pro Ala Asn Met Asp Lys Lys Tyr Arg Ser Gln His		
277 1 5 10 15		
280 <210> SEQ ID NO: 23		
281 <211> LENGTH: 42		
282 <212> TYPE: PRT		
283 <213> ORGANISM: Homo sapiens		
285 <400> SEQUENCE: 23		
287 Asn Leu Lys Lys Ile Thr Arg Glu Gln Arg Arg His Met Lys Arg Trp		
288 1 5 10 15		
291 Glu Tyr Phe Ile Ala Ala Glu Glu Val Ile Trp Asp Tyr Ala Pro Val		
292 20 25 30		
295 Ile Pro Ala Asn Met Asp Lys Lys Tyr Arg		
296 35 40		
299 <210> SEQ ID NO: 24		
300 <211> LENGTH: 9		

invalid. Artificial
Sequence must be explained
(see item 11 on Error
Summary Sheet)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007
TIME: 14:54:06

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
Output Set: N:\CRF4\03282007\J571989A.raw

301 <212> TYPE: PRT
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 24
306 Glu Tyr Phe Ile Ala Ala Glu Glu Val
307 1 5
310 <210> SEQ ID NO: 25
311 <211> LENGTH: 5
312 <212> TYPE: PRT
313 <213> ORGANISM: Homo sapiens
315 <400> SEQUENCE: 25
317 Glu Tyr Phe Ile Ala
318 1 5

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007
TIME: 14:54:07

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
Output Set: N:\CRF4\03282007\J571989A.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:7,8,9,12,13,14,21,22

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/571,989A

DATE: 03/28/2007

TIME: 14:54:07

Input Set : N:\efs\03_28_07\10571989A_efs\clev200023ST25.txt
Output Set: N:\CRF4\03282007\J571989A.raw

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date